

|  |                                     |                          |  |
|--|-------------------------------------|--------------------------|--|
| FORM PTO-1449<br>U.S. Department of Commerce<br>Patent & Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT</b><br><i>(Use several sheets if necessary)</i> | Attorney Docket No.<br>381AS/50803  | Serial No.<br>10/024,338 |  |
|  | Applicant: Shinji SHIRAKAWA, et al. |                          |  |
|  | Filing Date<br>December 21, 2001    | Group<br>3618            |  |

| U.S. PATENT DOCUMENTS |    |                 |         |                |       |           |                              |
|-----------------------|----|-----------------|---------|----------------|-------|-----------|------------------------------|
| Examiner Initial      |    | Document Number | Date    | Name           | Class | Sub-Class | Filing Date (if appropriate) |
| KCC                   | AA | 5544038         | 08/1996 | Fisher, et al. |       |           |                              |
|                       | AB |                 |         |                |       |           |                              |
|                       | AC |                 |         |                |       |           |                              |
|                       | AD |                 |         |                |       |           |                              |
|                       | AE |                 |         |                |       |           |                              |
|                       | AF |                 |         |                |       |           |                              |
|                       | AG |                 |         |                |       |           |                              |
|                       | AH |                 |         |                |       |           |                              |
|                       | AI |                 |         |                |       |           |                              |
|                       | AJ |                 |         |                |       |           |                              |

| FOREIGN PATENT DOCUMENTS |    |                    |         |        |       |               |             |    |
|--------------------------|----|--------------------|---------|--------|-------|---------------|-------------|----|
| Examiner<br>Initial      |    | Document<br>Number | Date    | Name   | Class | Sub-<br>Class | TRANSLATION |    |
|                          |    |                    |         |        |       |               | Yes         | No |
| KCC                      | AK | 11089247           | 03/1999 | Japan  |       |               | Abstract    |    |
| KCC                      | AL | 08140363           | 05/1996 | Japan  |       |               | Abstract    |    |
| KCC                      | AM | 0553981            | 08/1993 | Europe |       |               |             |    |
| KCC                      | AN | 98/10508           | 03/1998 | WO     |       |               |             |    |
|                          | AO |                    |         |        |       |               |             |    |
|                          | AP |                    |         |        |       |               |             |    |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) |    |  |  |  |  |  |  |
|--|----|--|--|--|--|--|--|
|  | AQ |  |  |  |  |  |  |
|  | AR |  |  |  |  |  |  |
|  | AS |  |  |  |  |  |  |

|  |                          |
|--|--------------------------|
| EXAMINER: <i>[Signature]</i>   | DATE CONSIDERED: 1/10/03 |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication. |                          |

|   |                                      |               |   |
|---|--------------------------------------|---------------|---|
| <b>Form PTO-1449</b><br>U.S. Department of Commerce<br>Patent & Trademark Office<br><br><b>INFORMATION DISCLOSURE STATEMENT</b><br><i>(Use several sheets if necessary)</i> | Atty. Docket No.<br>381AS/50803      | Serial No.    | JC675 U.S. PTO<br>10/024338<br>12/21/01 |
|   | Applicant<br>Shinji SHIRAKAWA et al. |               |   |
|   | Filing Date<br>December 21, 2001     | Group<br>3618 |   |

## U.S. PATENT DOCUMENTS

| Examiner Initial |    | Document Number | Date | Name | Class | Sub-Class | Filing Date (if appropriate) |
|------------------|----|-----------------|------|------|-------|-----------|------------------------------|
|                  | AA |                 |      |      |       |           |                              |
|                  | AB |                 |      |      |       |           |                              |
|                  | AC |                 |      |      |       |           |                              |
|                  | AD |                 |      |      |       |           |                              |
|                  | AE |                 |      |      |       |           |                              |
|                  | AF |                 |      |      |       |           |                              |
|                  | AG |                 |      |      |       |           |                              |
|                  | AH |                 |      |      |       |           |                              |
|                  | AI |                 |      |      |       |           |                              |
|                  | AJ |                 |      |      |       |           |                              |

## FOREIGN PATENT DOCUMENTS

|     |    | Document  | Date    | Country | Class | Sub-class | Translation Yes   No |
|-----|----|-----------|---------|---------|-------|-----------|----------------------|
| KQC | AK | 08-140363 | 5/31/96 | Japan   |       |           | Abstract             |
| QC  | AL | 11-089247 | 3/3/99  | Japan   |       |           | Abstract             |
|     | AM |           |         |         |       |           |                      |
|     | AN |           |         |         |       |           |                      |
|     | AO |           |         |         |       |           |                      |
|     | AP |           |         |         |       |           |                      |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | AQ |  |
|  | AR |  |
|  | AS |  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.